



ENVIRONMENTAL CONSULTANTS

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Report: **Weekly Progress Report**

Project: **Former North Plant MGP Site
Removal Action Construction
Waukegan, Illinois**

Date: March 20, 2014

Prepared By: Natural Resource Technology, Inc.
Andrew Millspaugh, EIT
Dan Vachon
Glenn Luke, PE

Submitted To: Integrys Business Support, LLC
Naren M. Prasad, PE

Activity Period: March 10, 2014 through March 15, 2014

Natural Resource Technology, Inc. Personnel on Site

- Andrew Millspaugh, **Field Engineer**
- Dan Vachon, **Field Technician**
- Chris Musson, **Field Engineer**
- Todd Lewis, **Construction Manager**
- Glenn Luke, **Project manager**

USEPA Personnel on Site

- Andy Plier, **OTIE**

Integrys/North Shore Gas Personnel on Site

- None

Subcontractors on Site

- Geo-Solutions, Inc. (GSI), **Earthwork, In Situ Solidification/Stabilization**
- James Anderson Co., **Designated Erosion Control Inspector**

Others

- Burns & McDonnell, **Perimeter Air Monitoring**

Visitors

- None

This report summarizes field activities performed by NRT, in addition to NRT's subcontractors, on behalf of IBS at the former North Plant MGP Site Time Critical Removal Action:

Site Activities

Removal Action Totals:

- Direct Disposal (Soil and Debris) through 3/15/14: 44,111.83 Tons
- In Situ Solidification/Stabilization (ISS) through 3/15/14: 149,487.96 Cubic Yards

NRT

- Managed site security and construction activities with IBS, GSI, WMI, and Burns & McDonnell.
- Facilitated and participated in daily safety meetings to evaluate potential safety concerns for the day's planned construction activities.
- Management and oversight of GSI's construction efforts throughout the week.
- Management and oversight of GSI during full-scale ISS construction in Removal Action Area A with 12% reagent addition.
- Issued truck tracking forms and documented 114 loads (2,079.72 tons) of soil and debris for disposal at Waste Management's Countryside Landfill in Grayslake, IL (Countryside Landfill).
- Coordination and scheduling of disposal trucks with WMI and GSI.
- Operation of the onsite truck scale.
- Prepared Construction Quality Assurance (CQA) samples from full-scale ISS (11 samples) for unconfined compressive strength (UCS) (ASTM D1633) and hydraulic conductivity (ASTM D5084) laboratory testing by Timely Engineering Soil Tests (T.E.S.T.). Test results to be compared to ISS performance goals established in the Removal Action Work Plan (RAWP).
- Received and reviewed ISS CQA sample test results for unconfined compressive strength (UCS) (ASTM D1633) and hydraulic conductivity (ASTM D5084). Laboratory testing is completed by Timely Engineering Soil Tests (T.E.S.T.). Test results are compiled and compared to the ISS performance goals established in the Removal Action Work Plan (RAWP).
- Construction survey verification of ISS column locations and elevations, pertinent site features, Removal Action Areas, historical foundations, etc.
- Accompanied James Anderson Co. during a weekly erosion control inspection on Wednesday (3/14).
- Monitored site conditions for traffic flow, fugitive dust, odors, and general overall safety.
- Conducted periodic worker health and safety air monitoring in the work zone.

Geo-Solutions Inc.

- Continued shallow soil excavation, pre-excavation, and demolition of subsurface historical structures in Removal Action Areas A and B.
- Continued full-scale ISS construction in Removal Action Area A with 12% reagent addition. 8,676.18 cubic yards of ISS was completed.
- Received 36 loads of ground granulated blast furnace slag (GGBFS) and 11 loads of Portland cement for full-scale ISS construction.
- Loaded 2,079.72 tons (114 loads) of soil and debris for direct disposal at Countryside Landfill.

- Implemented fugitive emission controls during shallow soil excavation, subsurface structure demolition and removal, and offsite trucking. Emission controls include water for dust suppression, Rusmar foam for odor and VOC emissions, and stockpile covering with scrim reinforced plastic.
- Maintained and administered site exclusion zones, decontamination areas, and site health and safety procedures.
- Conducted worker health and safety air monitoring in the work (exclusion) zone.

James Anderson Company

- Completed a weekly erosion control inspection on Friday (3/14). The inspections were performed in accordance with the Watershed Development Permit and the general National Pollutant Discharge Elimination System (NPDES) permit.

Changes to Scope of Work

- None

Open/Outstanding Items

- None

Work planned for the week of March 17, 2014 through March 22, 2014

- Perform perimeter Air Monitoring.
- Full-scale ISS construction in Removal Action Areas A and B with the Manitowoc 4000w and Delmag RH-28.
- Receive and evaluate ISS CQA data.
- Continue shallow soil excavation and removal of historical structures in Removal Action Areas A and B.
- Continue pre-excavation activities in Removal Action Areas A and B.

A Weekly Progress Report will be issued throughout the duration of field activities for this Time Critical Removal Action. A written report summarizing the results of the Removal Action will be provided following completion of all field activities. A summary of the perimeter air monitoring activities, as detailed by the Air Monitoring Contractor, is included with this report as Attachment 1.

Please contact us if you have any questions.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.



Glenn Luke, PE
Environmental Engineer

Attachment 1: Burns and McDonnell Weekly Air Monitoring Report

Field Photos:



Photo 1: Manitowoc 400W mixing ISS columns in Removal Action Area A.

Direction: East

Photo Date: 3/10/14

Photo Taken By: DJV



Photo 2: GSI excavating impacted soil in Removal Action Area A.

Direction: East

Photo Date: 3/11/14

Photo Taken By: AMM



Photo 3: WMI hauling soil and debris for direct disposal at Countryside Landfill

Direction: East

Photo Date: 3/12/14

Photo Taken By: AMM

ATTACHMENT 1



1431 Opus Place, Suite 400
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**Record of Weekly Ambient Air Monitoring Activities
Former North Plant MGP Site**

Date Period: March 10 - 16, 2014

Burns & McDonnell is performing ambient air monitoring and sampling along the site perimeter at the Former North Plant MGP Site in accordance with the *North Plant MGP Site – Removal Action Work Plan (RAWP)*. We are completing real time ambient air monitoring 24-hours a day, seven days a week at seven locations (AMS-1 through AMS-7) along the Site perimeter. We are collecting 24-hour perimeter air samples at upwind and downwind locations at the Air Monitoring Stations on a routine basis at frequencies and quantities outlined in the RAWP. Burns & McDonnell is also performing real-time handheld and observation monitoring as described in the RAWP. This weekly report describes air monitoring activities for the week of March 10 – 16, 2014 and includes:

Tasks	Ambient Air Monitoring Activities
Sampling Activities Performed	A total of 8 SUMMA canister air samples and 6 PUF air samples including one duplicate and one field blank air sample were collected and submitted to STAT Analysis for BTEX/Naphthalene and select PAH analyses, respectively.
BMcD Field Personnel	Josh Myers Ross Hartwick Emily Meyer Erik Ehrengren
Equipment Deployed	AirLogics Air Monitoring Stations SUMMA canisters with 24-hour flow regulators PUF sampling systems Photo ionization detector (PID) TSI Dusttrak monitoring device

Figure 1: Site Map

